5(3) SOV/62-59-4-3/42 AUTHORS: Klimova, V. A., Zabrodina, K. S.

TITLE: Simultaneous Microdetermination of Carbon, Hydrogen, and Mitrogen in Nitro Compounds (Odnovremennoye mikroopredeleniye

ugleroda, vodoroda i azota v nitrosoyedineniyakh)

PERIODICAL: Investiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 4, pp 582-585 (USSR)

ABSTRACT: The methods described in publications for the simultaneous determination of carbon, hydrogen, and nitrogen in organic compounds are based on the combustion of the substance up to carbonic acid, water, and elemental nitrogen. The method suggested in the present paper consists in burning the substance to be investigated during evaporation in an oxygen stream on platinum. Carbonic acid, water, and nitrogen dioxide, which are formed, are quantitatively absorbed by suitable absorbers and the percentage contents of C, H, H are calculated from the weight increase of the absorbers. In this method the mode of combustion is of decisive importance. A combustion with pre-

ceding pyrolysis as is employed in the determination of C and H Card 1/3 is not suitable because it reduces the nitrogen dioxide yield

507/62-59-4-3/42

Simultaneous Microdetermination of Carbon, Hydrogen, and Nitrogen in Nitro Compounds

and involves the formation of a considerable amount of elemental nitrogen. To avoid pyrolysis the evaporation must be slow. The rate of the oxygen stream is of high importance. The optimum rate is 5-8 milliliters per minute (Table 1). Nitrogen dioxide is collected by manganese dioxide (Ref 8), as well as by silica gel impregnated with a 0.02 M K2Cr2O7 solution in sulphuric acid (specific gravity 1.84) (Ref 9). The latter has the advantage of absorbing large amounts of nitrogen oxides for an equal length of layer. A certain amount may be retained by the condensation water at the inlet end of the anhydron-filled absorption apparatus. This leads to inaccurate results. For this reason the anhydron-filled apparatus is heated to 75-85° at this point. The temperature of the apparatus filled with anhydron must be less than 100 (Ref 10). During the analysis of haloidcontaining nitro compounds a silver gause roll is also placed in the combustion tube. During the combustion of nitro compounds containing no haloid only a platinum gauze roll 15 cm long is placed in the zone of the elongated furnace. Carbonic acid is absorbed by ascarite and water by anhydron. A scheme of the in-

Card 2/3

Simultaneous Microdetermination of Carbon, Hydrogen, and Mitrogen in Mitro Compounds

stallation for the simultaneous microdetermination of C, H, N in nitro compounds having the composition C, H, H, O, Cl, Br is shown in the figure. Analysis results are given in table 2. There are 1 figure, 2 tables, and 10 references, 3 of which are Soviet.

ASSOCIATION:

Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED:

July 16, 1957

Card 3/3

5 (2) AUTHORS:

Klimova, V. A., Merkulova, Ye. N.

SOV/62-59-5-4/40

TITLE:

On the Simultaneous Determination of Carbon, Hydrogen, and Halogens (Ob odnovremennom opredelenii ugleroda, vodoroda i

galoidov)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheekikh nauk,

1959, Nr 5, pp 781 - 786 (USSR)

ABSTRACT:

In the simultaneous determination of carbon, hydrogen, and halogens, halogens were so far determined in a quartz tube lined with silver foil or a silver grid (absorption of the halogen by silver) (Refs 2,3). There was, however, always an error up to ± 0.6%. The error was attributed to the heavy quartz apparatum which rendered the weighing inaccurate. Moreover, the authors noticed that the silver halide being formed melts al-

ready at the applied temperatures of 500-550° and affects the quartz of the apparatus. They attributed a part of the error of the determination of the halogen to this fact. In order to prevent a contact between silver halide and quartz and to reduce the weight of the absorption apparatus metal shuttles had been used already by others (Denstedt (Ref 4) and others (Ref

Card 1/3

On the Simultaneous Determination of Carbon, Hydrogen, SOV/62-59-5-4/40 and Halogens

5)). The authors used platinum shuttles lined with silver foil. The measuring error observed with this method was only \pm 0.3%. The determination values obtained are summarized in tables 1 and 2. However, also this method shows some deficiencies. The authors decided to precipitate the silver used in the absorption of the halogens electrolytically in the shuttles and to

2位于省域的国际的理论的建设的设计中国的规则的编码器。 量和显错的被重相多效的对称的一个一个一个一个一个人的人的现在分词,因为这种原则是使用的现在中国的重要和国际的

work at lower temperatures (410-440°). This method showed good results and could also be used in the simultaneous determination of four different elements, e.g. of silicon and boron-organic compounds. Corresponding data are shown in table 3. The experimental part shows the scheme for obtaining the electrolytical silver precipitate in figure 1, the devices for the simultaneous and express determination of the elements mentioned in figures 2 and 3. There are 3 figures, 3 tables, and 7 references, 4 of which are Soviet.

Card 2/3

CIA-RDP86-00513R000723130002-3 "APPROVED FOR RELEASE: 09/18/2001

On the Simultaneous Determination of Carbon, Hydrogen, SOV/62-59-5-4/40 and Halogens

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chemistry imeni R. D. Zelinskiy of the Academy of Sciences, USSR)

SUBMITTED: July 16, 1959

Card 3/3

CIA-RDP86-00513R000723130002-3" APPROVED FOR RELEASE: 09/18/2001

5(3) AUTHORS:

Klimova, V. A., Zabrodina, K. S.

507/62-57-7-33/38

THE RESERVE AS A STATE OF THE PARTY OF THE P

TITLE:

Microdetermination of the Keto Group With the Oxinating Method (Mikroopredeleniye keto-gruppy metodom oksimirovaniye)

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdoleniye khimicheskikh nauk, 1959, Nr 7, pp 1343 - 1345 (USSR)

ABSTRACT:

A previous paper (Ref 1) had revealed that the formation of oximes with hydrochloric hydroxyl amine may be made use of for the microdetermination of the carbonyl group; it takes place by the following reaction: RCOR₁+NH₂OH.HCl → RC(=HCH)R₁+ +H₂O+HCl. This reaction is very quick and takes place at room temperature. Heating is required for compounds of the type CH-CO-CH(or CC-CO-CH(. Under the conditions mentioned an investigation was carried out here to determine the carbonyl group in ketones, esters of ketonic acid and also in diketones which purmit oximation. The analytic data are compiled in a table. The determination course is described. It was found that when using 0.3 normal solution of hydrochloric hydroxyl amine, the accuracy of the determination method is higher as

Card 1/2

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

Microdetermination of the Kcto Group With the Oximating Method

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507/62-59-7-33/38

compared with the utilization of 0.5 n-solution. The following formula was applied for the computation of the 2-content of CO with the potentionetric titration:

%CO-group- 28.18(a-b).100 . There are 1 table and 1 Soviet

ASSOCIATION: Institut organicheskoy khimii im. N. E. Zelinskogo Akademii

nauk SSSR (Institute of Organic Chamistry incai N. D. Zelins-

kiy of the Academy of Sciences, USSR)

SUBMITTED: January 14, 1959

Card 2/2

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130002-3

5.5200

77093 sov/62-59-12-37/43

AUTHORS:

Klimova, V. A. Mukhina, G. K.

TITLE:

Brief Communications. Simultaneous Determination of

Carbon, Hydrogen, Sulfur and Halogens

PERIODICAL:

Izvestiya Akademii nauk. Otdeleniye khimicheskikh

nauk, 1959, Nr 12, pp 2248-2250 (USSR)

ABSTRACT:

Organic compounds containing sulfur and halogens can be analyzed by Korshun and Sheveleva's method (Zh. anal. khimii, 1952, Vol 7, p 104) giving the content of C, H, and the sum of halogen and sulfur. The authors es-

tablished that cobaltic oxide at 400-500° absorbs, solely, sulfur oxides but not halogen. They also developed a

method for simultaneous determination of carbon, hydrogen, sulfur, and halogen. The method consists of pyrolytic decomposition of the investigated compounds (5-6 mg apple) in high-velocity orygen flow. The combustion

sample) in high-velocity oxygen flow. The combustion products are absorbed separately: sulfur oxides by Co_2O_3 ; halogen by electrolytically precipitated silver

Card 1/2

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3

Brief Communications. Simultaneous Determination of Carbon, Hydrogen, Sulfur and Halogens 77093 \$0V/62-59-12-37/43

(at 420°); water and CO₂, as usual, by anhydrone and ascarite, respectively. The amount of sulfur is determined by treating cobaltic oxide with water, leaving it overnight, filtering, and titrating the filtrate with Ba(NO₃)₂ in the usual manner. The presence of phosphorus and silicon do not hinder the analysis, and their content can be determined from the amount of ashes obtained, using quartz and asbestos analysis of 2-(8-chloronaphthyl)ethyl sulfone. Other compounds also gave satisfactory results. There are 2 figures; 1 table; and 7 references, 1 Austrian, 1 German, 5 Soviet.

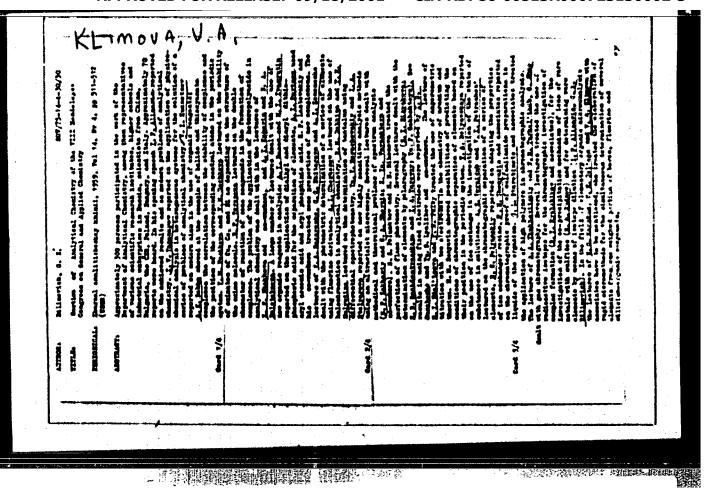
ASSOCIATION:

N. D. Zelinskiy Institute of Organic Chemistry, Academy of Sciences USSR (Institut organicheskoy khimii imeni N. D. Zelinskogo Akademii nauk SSSR)

SUBMITTED:

May 8, 1959

Card 2/2



507/20-125-2-31/64 5(4) Mayranovskiy, S. G., Faynzil'berg, AUTHORS: A. A., Novikov, S. S., Klimova, V. A.

> On the Influence of Negative Groups on the Electrochemical Reduction of the Bond Carbon - Halogen in Organic Compounds (O vliyanii otritsatel'nykh grupp na elektrokhimicheskoye vosstanovleniye svyazi uglerod galoid v organicheskikh soyedineniyakh). The Polarographic Behavior of Halide-nitroalkanes (Polyarograficheskoye povedeniye galoidnitroalkanov)

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, PERIODICAL pp 351-353 (USSR)

TITLE:

ABSTRACT:

The present paper deals with the influence exercised by the nitro groups in &-position on the easiness of the electrochemical reduction of the carbon-halide bond. Even though the nitro group itself is easily polarographically reduced, its presence (as the experiment shows) facilitates the electrochemical breaking of the C-Hal bond to such an extent that the wave corresponding to its reduction becomes a wave of the reduction of the nitro group. The investigation was carried

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out by means of the recording polarograph of the Talk Card 1/4

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3" On the Influence of Negative Groups on the SOV/20-125-2-31/64 Electrochemical Reduction of the Bond Carbon - Halogen in Organic Compounds. The Polarographic Behavior of Halide-nitroalkanes

Energochermet (State All-union Trust for the Design, Planning, Assembly and Adjustment of Power Installations and Controland Measuring Instruments of the Ministry of Ferrous Metallurgy, USSR). Measures for increasing measuring accuracy are discussed in short. A comparison between the polarograms of the halogenized nitro-compounds and the waves of the analogous nitroproducts containing no halide shows that the first wave of nitrohalide alkanes corresponds to the reduction of the C-Hal bond. This is proved by the independence of $B_{1/2}$ of the first wave of the pH of the solution. The second wave, which corresponds to the reduction of the nitro group, shifts with increasing pH of the solution towards negative potentials. The experimental data corresponding to the reduction of the C-Hal bond are given in a table. In irreducible processes (including the electrochemical reduction of the bond carbon - halide) the potential of the semiwave is only an approximated criterion

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On the Influence of Negative Groups on the SOV/20-125-2-31/64 Electrochemical Reduction of the Bond Carbon - Halogen in Organic Compounds. The Polarographic Behavior of Halide-nitroalkanes

of the easiness of the reduction of the C-Hal-bond. The existence of a nitro group in &-position facilitates the reduction of the carbon - halide bond considerably, and the influence exercised by the nitro groups also increases with an increase of their number. As expected, bromides are reduced more easily than the corresponding chlorides. Of the iodides only iodotrinitromethane was investigated. Interest is caused by the variation of the product of n of the number n of electrons participating in the potential-determining stage of the process and the conversion coefficientdin some substances in which the polarity of the C-Hal-bond varies. The influence exercised by the structure of the investigated substance upon of their waves will be investigated in the course of a future investigation. There are 1 table and 10 references, 6 of which are Soviet. Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni H. D.

ASSOCIATION:

On the Influence of Hegative Groups on the SOV/20-125-2-31/64 Electrochemical Reduction of the Bond Carbon - Halogen in Organic Compounds. The Polarographic Behavior of Halide-nitroalkanes

Zelinskiy of the Academy of Sciences, USSE)

PRESENTED: November 10, 1958, by A. H. Frumkin, Academician

SUBMITTED. November 10, 1958

Card 4/4

KLINOVA, V.A.; VITALIKA, M.D.

Potentiometric microtitration of halides in organic compounds following their mineralisation. Zhur.anal.khim. 15 no.3:339-341 My-Je *60. (MIRA 13:7)

1. H.D.Zelinsky Institute of Organic Chemistry, Academy of Sciences, U.S.S.R., Moscon. (Browine-Analysis) (Iodine-Analysis) (Chlorine-Analysis)

S/062/60/000/010/007/018 B015/B064

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AUTHORS:

Mayranovskiy, S. C., Belikov, V. M., Korchemnaya, Ts. B.,

Klimova, V. A., and Movikov, S. S.

TITLE:

Tautomerism of <u>Mitro-compounds</u>. Information 2. Polarographic Investigation of the Kinetics of Tautomeric Conversions of

Phenyl Mitro-methane

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1960, No. 10, pp. 1787-1795

TEXT: In a previous investigation (Ref. 1), the polarographic activity of the aci-form of phenyl nitro-methane was determined. The present paper describes the technique applied and gives the experimental data obtained. The polarographic behavior of the aci- and nitroforms of phenyl nitro-methane was investigated, i.e., the kinetics of the transformation of the aci-form into the nitro-form at pH 1-4, the nitro-form into the anion at pH 7-10, and the anion into the nitro-form at pH 4-6. Moreover, the dissociation constants of the aci- and nitro-forms were

Card 1/3

Tautomerism of Nitro-compounds. Information 2. Polarographic Investigation of the Kinetics of Tautomeric Conversions of Phenyl Nitro-methane

S/062/60/000/010/007/018 B015/B064

polarographically and potentiometrically determined. The experiments were conducted in an optical polarograph, and the current was measured with an M-917(M-91) microammeter. The potential of the dropping electrode was checked with an AM-1 (LM-1) voltmeter, and determined with a N-4 (P-4) potentiometer. The experiments were carried out at 2510.1°C using various buffer solutions, and the pH was determined with glass electrodes and ΛΠ-5 (LP-5) or ΛΠ-59 (LP-59) potentiometers. The potentials of the halfwaves at pH 1.15 are $E_{1/2}$ = -0.52 v for the nitro-form and $E_{1/2}$ = -0.66 v for the aci-form. Investigations of the dissociation kinetics showed that the ionization of phenyl nitro-methane in buffer solutions can be described by an equation of the first order. The ionization rate was investigated in the presence of various bases. The rate of transformation of the aciform into the nitro-form was found to follow the equation of a reaction of the first order throughout the pH range investigated. Investigations on the recombination kinetics of phenyl nitro-methane showed that at pH 4-5 the dissociation of the aci-form and the recombination of the nitro-form take place simultaneously. The values for the dissociation

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Tautomerism of Nitro-compounds. Information 2. S/062/60/000/010/007/018 Polarographic Investigation of the Kinetics of B015/B064 Tautomeric Conversions of Phenyl Nitro-methans

constants of the aci- and nitro-forms under the action of bases and acids were computed with the help of Brönsted's equation (Tables 1,2). The authors thank D. G. Knorre for advice. There are 11 figures, 2 tables, and 5 references: 4 Soviet and 1 US.

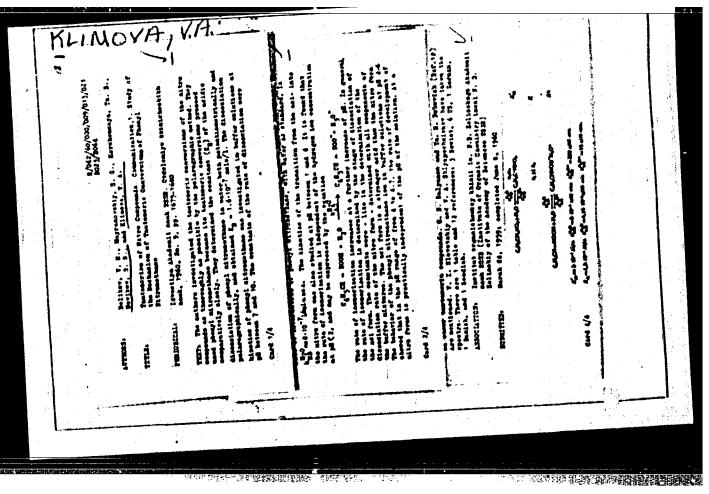
ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D.

Zelinskiy of the Academy of Sciences USSR)

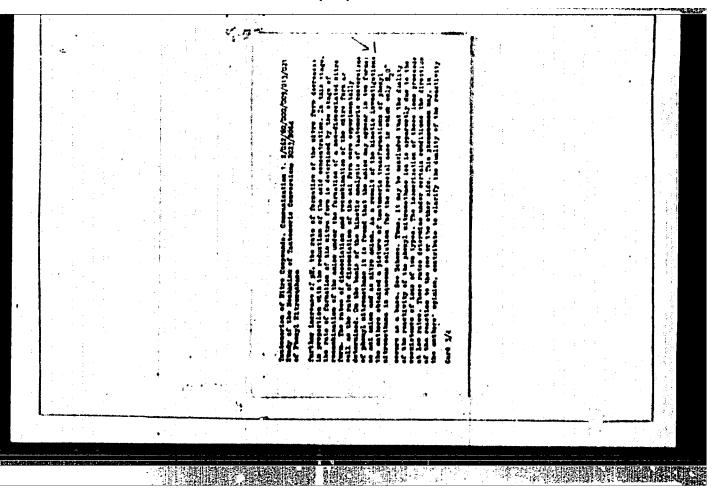
SUBMITTED: March 24, 1959

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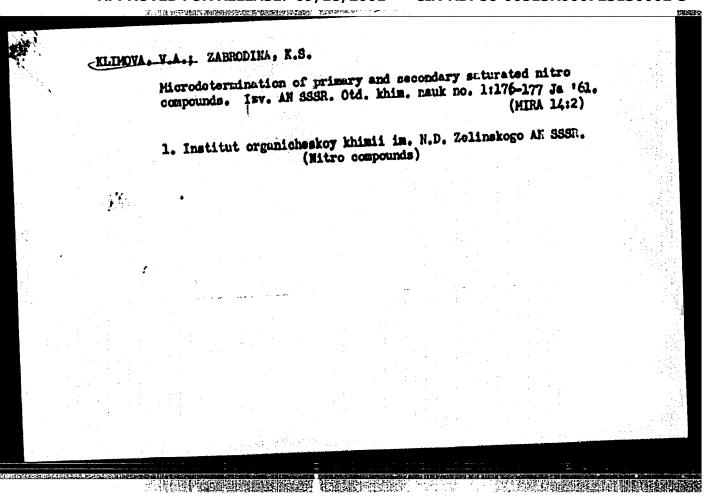
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TERRET'YEV, A.P., otv.red.; ALIMARIN, I.P., red.; GEL'MAN, N.R., red.;
KLIMOVA, Y.A., red.; KERSEKOV, A.P., red.; KUZHETSOV, V.I., red.;
LHVIN, H.S., red.; PODDAYEKAYA, Z.I., red.; RUKHADZE, Te.G., red.;
TAL'ROXE, V.L., red.; TSUKERMAN, A.M., red.; SHEMYAKIN, F.M., red.;
SHEYNKUR, Yu.M., red.; YERMAKOV, M.S., tekhn.red.

[Conference on organic analysis] Soveshchanie po organicheskowu analisu. Tesisy dokladov. Moskva, Isd-vo Mosk, univ., 1961. 170 p. (MIRA 14:4)

1. Soveshchaniye po organicheskomu analisu. 1961. (Chemistry, Analytical-Congresses) (Chemistry, Organic-Congresses)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"



KLIMOVA, V.A.; ANISIMOVA, O.F.

THE PERSON OF THE PROPERTY OF

Volumetric analysis completion in the microdetermination of carbon and hydrogen after the decomposition of organic substances by their combustion in an oxygen stream. Izv.AN SSSR.Otd.Mim.nauk no.ll: 2088-2090 N *61. (MIRA 14:11)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AM SSSR. (Carbon--Analysis) (Hydrogen--Analysis)

KLIMOVA, V.A.; ZABRODINA, K.S. Microdetermination of methoxy and ethoxy groups. Izv. AM SSSR Otd.khim.nauk no.12:2234-2235 D '61. (MIRA 14:11) 1. Institut organicheskoy khimii im. M.D.Zelinskogo AM SSSR. (Ethoxy group) (Methoxy group)

KLIMOVA, V.A.; ANTIPOVA, T.A.

Degradation of organic compounds in a rapid oxygen flow under conditions of microelementary analysis. Zhur.anal.khim. 16 no.3:343-347 Mp-Je '60.

1. N. D. Zelinsky Institut of Organic Chemistry, Academy of Sciences of the U.S.R., Moscow. (Organic compounds) (Microchemistry)

·中心等主人學研測學問題問題問題問題與實際學歷史問題於 斯勒德 的现在分词使用的事情的可能

KLIMOVA, V.A.; ANTIPOVA, T.A.

Flash combustion in the microdetermination of carbon and hydrogen in a rapid flow of oxygen. Zhur. anal. khim. 16 no. 4:465-468 Jl-Ag '61. (MIRA 14:7)

1. N.D. Zelinskiy Institute of Organic Chemistry, Academy of Sciences U.S.S.R., Moscow. (Carbon-Analysis) (Hydrogen-Analysis) (Oxygen)

A COLUMN TO THE PROPERTY OF TH

KLIMOVA, V.A.: ANTIPOVA, T.A.: MUKHINA, G.K.

Simultaneous determination of carbon, hydrogen, and halogens or sulfur by "flash combustion". Izv. AN SSSR Otd.khim.nauk no.1:19-22 Ja *62. (MIRA 15:1)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. (Carbon-Analysis) (Hydrogen-Analysis) (Halogens)

RLIMOVA, V.A.; MERRULOVA, Ye.N.

Preparation of finely dispersed silver for the microchemical analysis of elements. Zhur.anal.khim. 17 no.1:142 Ja-F '62. (MIRA 15:2)

1. N.D.Zelinsky Institute of Organic Chemistry, Academy of Soiences U.S.S.R., Moscow. (Chemistry, Analytical) (Silver)

KLIMOVA, V.A.; HEREZNITSKAYA, Yo.G.; MUKHINA, G.K.

Committee and intermediate the property of the

Determination of elements in tungsten sulfide catalysts. Izv.

AN SSSR Otd.khim.nauk no.8:1520-1521 Ag '60. (MIRA 15:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AM SSSR. (Catalysts, Tungsten)

ZIMNEVA, Yelena Matveyevna [deceased]; SHIRALOVA, Lidiya Ivanovna;
SHEMANOVA, Valentina Pavlovna; DIMENT, Esfir' Markovna;
GAERTSETTEL', Andrey Iv novich; KONDRAT'IEVA, Zinaida
Sergeyevna; KLIMOVA, V.A., insh., retsemsent; POPILOV, L.Ya.,
nauchmyy red.; VASIL'IEVA, N.N., red.; TSAL, R.K., tekhn. red.

[Seawater corrosion of copper alloys]Morskaia korrosiia mednykh splavov. Leningrad, Sudpromgis, 1963. 84 p.

(Copper alloys—Corrosion)

(Copper alloys—Corrosion)

VITALINA, M.D.; KLIMOVA, V.A.

Simultaneous determination of germanium and halogens in organic compounds. Zhur.anal.khim. 17 no.9:1105-1108 D '62. (MIRA 16:2)

1. N.D. Zelinsky Institute of Organic Chemistry, Academy of Sciences, U.S.S.R., Moscow. (Germanium—Analysis) (Halogens) (Organic compounds)

TO SEE SEE THE THE THE THE PROPERTY OF THE PRO

KLIMOVA, V. A.; VITALINA, M. D.

Use of a cation exchanger in the determination of fluorine by thorimetric titration in fluoreorganesilicon compounds. Isy. AN SSSR Otd. khim. nauk mo.12:2245-2246 D 162. (MIRA 16:1)

1. Institut organicheskoy khimii im. N. D. Zelinskogo AN SSSR.

(Fluorine-Analysis) (Silicon organic compounds)

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3

L 12972-63 DOP(j)/KPF(c)/BDC(n)/BDC ASD Po-4/Pr-4 RK/M ACCESSION NR: AT3002340 8/2513/63/013/000/0007/0015 Klimova, V. A.; Vitalina, M. D. TITLE: Volumetric microdetermination of silica in organosilica compounds dissolved silicates SOURCE: AN SSSR. Komissiva no smaliticheskoy khimii. Drudyt. v. 13, 1963. Organicheskiy analiz, 7-15 TOPIC TAGS: volumetric determination, silica, HCl, NaCH ABSTRACT: This study showed that the determination of silica in organosilica compounds by a potassium metal fusion was not reproducible. Further investigation of silica analysis established that, by fusion of organosilica and organosilica fluoride materials with eaustic potassium in a microbomb made of nickel at a temperature of 7000, the silica can be quantitatively converted into a soluble silicate. Reproducibility of results as indicated through standards is excellent The dissolved silics is converted into siliconlybdic complex by the addition of ammonium molybdate solution. Prior to the above step, the solution is neutralized the complex is then precipitated with a quinoline solution and washed. The washed precipitate is dissolved in an excess of 0.05% NaCH, and the unreacted MaCH is back titrated with 0.05% HCL. Orig. art. has: 3 tables and 2 figures. Card 1/2/

STROMSKAYA, N.P.; SMIRMOVA, T.I.; KLIMOVA, V.A.; LOKTIOMOVA, L.I.;
SIROMYATNIKOVA, M.A.; ALTHAN, M.B., rukovoditel raboty.

Effect of metal inclusions on the properties of aluminum foundry alloys. Alium. splavy no.1:55-72 '63. (NIRA 16:11)

Coulometric microdetermination of hydrogen in organic compounds. Zhur. anal. khim. 18 no.3:412-413 Mr 163. (MIRA 17:5)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR, Moskva.

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KLIMOVA, V.A.; VITALINA, M.D.

Quantitative determination of germanium in organogermanium compounds. Zhur.anal.khim. 19 no.10:1254-1257 464. (MIRA 17:12)

1. N.D.Zelinsky Institute of Organic Chemistry, N.S.S.R. Academy of Sciences, Moscow.

L'VOV, A.H.; KLIMDVA, V.A.; PALIY, A.I.

New variant of the micromethod for water determination by
Pischer's reagent. Zhur. anal. khim. 19 no.11:1366-1371

164. (MIRA 18:2)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva.

	compounds.	mination of alko lzv. AN SSSR Se	r. khim. ne.1:	rija (Prima da Granda). Tanan da Granda da G	(AIRA 18:	
	1. Institu	it organicheaksy	khizif iz. I	. 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AN SEAR.	

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ELIMINE IL A . TADDONTALA W. O MILTONTAGOLA M. C.	
KLIMOVA, V.A.: ZABRODINA, K.S.; SHITIKOVA, N.L.	
Microdetermination of alkoxyl groups in sulfonic AN SSSR, Ser. khim. no.7:1288-1289 '65.	acid esters. Isv. (HIRA 18:7)
1. Institut organicheskoy khimii im. N.D.Zolinsko	ogo an SSSR.

†	(A,N)	SOURCE CODE: UF	/2981/66/000/004/0070/0077
AUTHOR: Klimova, V. A.		*	
ORG: none			39 B+1
TITLE: Study of the corr	osion resistance o	f VADES alloy &	BTI
SOURCE: Alyuminiyevyye s (Heat resistant and high-	arrangru arrohal"	70 - 77	
TOPIC TAGS: Aluminum ali	J RESISTANT A loy, corrosion res	istance / VAD23 a	luminum alloy, Di6 alumi-
VAD23 is comparable to the	tively, were compa at of unclad DIA.	nd <u>D16; quenched</u> red. The corresion VAD23 in the artition of the corresponding to the corre	and agod for 16 hr at 170°C on resistance of unclad ificially aged state (170°C

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

REVEL'SKIY, 1.A.; BORODULINA, R.I.; SOVAKOVA, T.M.; KLIHOVA, V.C.

Rapid determination of the number of carbon and hydrogen atoms in the molecules of gaseous compounds. Dokl. AN SSSR 159 no.42 861-864 D 164 (MIR4 18:1)

1. Predstavleno akademikon M.I. Kabashnikom.

KLIMOVA, V. I.

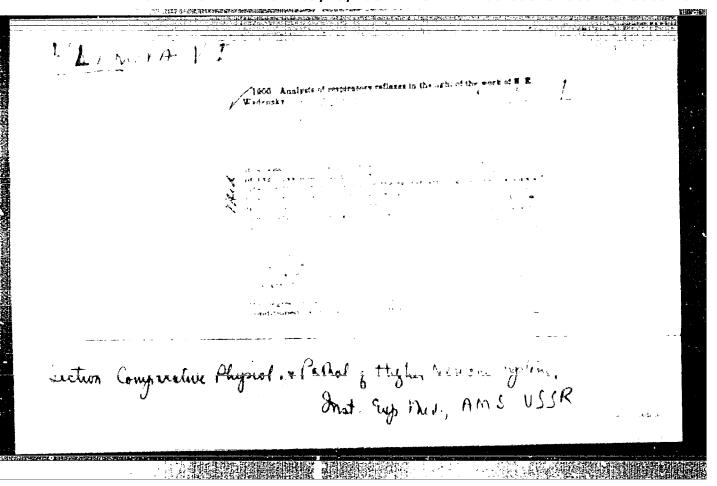
Klimova, V. I. "Comparison of the physiology of conditioned motor reflexes. Experiments on rabbits and guinea pigs," Trudy Voroneshak. med. in-ta, Vol. XIV, 1948, p. 39-42

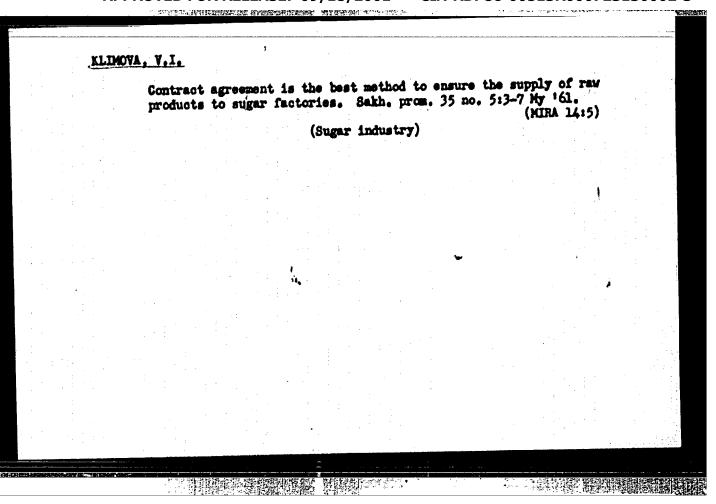
SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949

KLIMOVA, V. I.

Klimova, V. I. "Reflexes in the preathing of frogs during liminal and subliminal stimuli," Trudy Voroneshsk. med. in-ta, Vol. XIV, 1968, p. 77-60

SO: U-2888, Letopis Zhurnal'nykh Statey, No. 1, 1949





Effect of a changed function state of the higher sections of the central nervous system on the development of malignant tumors in rats. Trudy Inst. vys. nerv. deiat. Ser. patofiziol. no.9:94-98 (61. (CONDITIONED RESPONSE) (CANCER)

Treatment of duodenal fistulas. Vest. khir., Noskva 73 no.2:26-28
(GLML 24:3)

1. Professor for Ratner. 2. Octabe Frontly Surgical Clinic of Sverdlovsk Medical Institute and Sverdlovsk Oblast Oncological Dispensary.

Treatment of duodenal fistual after resection of the stomach. West.khim. 84 no.3168-75 Mr 160. (STOMAGE—SURGERY) (OVODENUM—DISEASES) (MIRA 13:12)

USSR/Farm An ambs - General Problem.

Q-1

Abs Jour : 102 200 - Biol., No 10, 2000, 08307

Author

: Kalmova, V.H., Lavrova, G.D., Hychkova, A.T., Federageva,

Inst

: Museou Technological Institute of Meat and Dairy Indian-

Title

: The Carotena Content in Feeds of the Baryoine Sevicion.

Cris Pub

: She stude rabot. Moske velicible an-t myname a moloc te

prom-sti, 1958, /yp. 5, 113-115.

Abstract : No abstract.

Card 1/1

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

•	Dump truck with a "PZA" loader. Sakh.prom. 38 no.3:42-43 Mr '64. (MIRA 17:4)	
	1. Adygeyskiy sakharnyy zavod.	

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

"APPROVED FOR RELEASE: 09/18/2001

CIA-RDP86-00513R000723130002-3

HARWI, V. I.

"The Clinical Aspect and Therapy of Certain Types of Site Reformations by Rermanent Mijustment Apparatuses." Cand Med Sci, Khar'kov Redical Inst, Khar'kov, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Discertations Defended at USSR Higher Educational Institutions (14)

KLIHOVA, V.P., kand, med, nuak; MARZYUK, L.W., kand, med, nauk Arched prosthesis in paradentesis. Probl. stom. 4:361-364 158. (MIRA 13:6) (QUMS--DISEASES) (DESTAL PROSTRESIS)

KLIMOVA, V.S.; KATORZHNOV, N.D.; KUDRYAVTSEV, G.I.; BESCHASTNOV, A.V.

Rapid method for the simultaneous determination of the mondair and moisture content of polycaprolactam. Khim. volck no.6:64-65 '63.

(MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo vo-lokna.

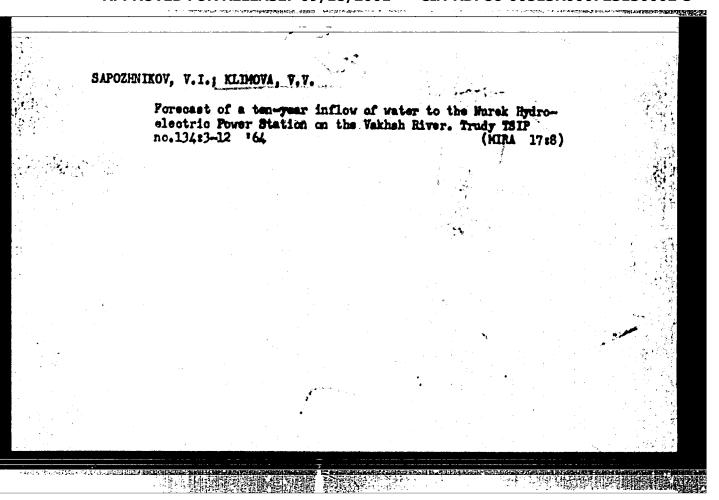
SAPOZEMIKOV, V.16; KLIMOVA, V.V.

Forecasting the streamflow of the Belaya River, frudy 78IP no.105:
(KIRA 14:1)

(Belaya River (Bashkiria)—Hydrology)

SAPOZHNIKOV, V.I., KLIMOVA, V.V.	
Five-day streamflow forecasts for the Aragva River at the village of Zhinvani in spring and summer. Trudy TSIP no.113:60-70 '61. (MIRA 14:9)	
(Aragva RiverHydrology)	•
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Complete and antistration of the second and antistration of the second o

KLIMOVA, Ye.; SHISHMBIBA, V.; KBYAZ'KOVA, Ye.

Our experience in the production of raw-smoked sausage. Miss. ind. SSSR 24 no.5:57-58 153. (MIRA 6:12)

1. 2-y kolbasnyy savod Leningradskogo myasokombinata. (Sausages)

BORISOV, A.; KLIMOVA, Ye.

Simplified method of manufacturing raw-smoked smusage. Miss.ind. SSSR 33 no.2:21 162. (MIRA 15:5)

1. Kolbasnyy savod No.2 Leningradskogo myasokombinata. (Sausages)

Machines fo sugar best bultivation. Trakt. i sel'khozmash. 31 (MIRA 14:12)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut sel'skokhosyaystvennogo mashinostroyeniya. (Sugar beets) (Agricultural machinory)

KLIMOVA, Ye.A., inzh.

Machinery for orchards and vineyards. Trakt. i sel*khozmash. 31 no.12:26-27 D *61. (MIRA 15:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut sel skokhozyaystvennogo mashinostroyeniya. (Fruit culture) (Agricultural machinery) (Viticulture)

KLIMOYA, Ye.A., insh.

The UKP-06 rock picker and hauler. Trakt. i sol'khosmash. 32 no.2:32-33 F '62. (HIRA 15:2)

(Agricultural machinery)

		:					
KLIMOT	MOVA, Ye.A., insh.						
-	The PS-0, 9A rotary garden cultivator. Trakt.i se no.4142 Ap 162.						
	1. Vsesoyuznyy nauchno issledovateliskiy institut zysystvennogo mashinostroyeniya. (Cultivators)	sel'skokho-					
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		[1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2					

KLIMOVA, Ye.A.

The AAP-0,5 "Mikron" pulsatory aerosol apparatus. Trakt. 1 sel'khosmash. (MIRA 16:3)

1. Vsesoyusnyy nauchno-issledovatel'skiy institut sel'skokhosyaystvennogo mashinostroyeniya.

(Spraying and dusting equipment)

KOCHENENKO, D.V., kand.sel'skokhoz.nauk; KLIMOVA, Ye.A., inzh.

Sprayer for vineyards and orchards mounted on a small-size crawler tractor. Zashch.rast.ot vred. 1 bol. & no.4:54 Jl-Ag '59.

(MIRA 16:5)

(Spraying and dusting equipment)

ARBUZOV, Yu.A.; KLIMOV, Ye.H.; KLIMOVA, Ye.I.

Diene synthesis with glyoxylic acid esters. Dokl. AN SSSR 142 no.2:341-343 Ja 162. (HIRA 15:2)

l. Hoskovskiy gosudarstvennyy universitet im. H.V.Lomonosova. Predstavleno akademikom A.Ye.Arbusovym. (Olefins)

(Olerins) (Olyxylic acid)

ARBUZOV, Yu.A.; KLIMOVA, Ye.I.

Condensation of glymylic acid esters with betones.
Zhur.ob.khim. 32 no.11:3676-3681 N '62. (MRA 15:11)

1. Moskovskiy gosudarstvennyy universitet imeni
M.V. Lomonosova.

(Glymylic acid)
(Ketones)

GD/GW EWT(1) SOURCE CODE: UR/0000/64/000/000/0066/0075 44327-66 ACC NRI AT 6028288 AUTHOR: Bonchkovskaya, T. V.; Klimova, Ye. I.; Mishina, M. I.; Nikitin, V. G. ORG: none TITIE: The problem of heat transfer in the lower layer of the atmosphere SOURCE: AN SSSR. Institut prikladnov geofiziki. Issledovaniya teploobmena v atmosfere (Investigations of heat exchange in the atmosphere). Moscow, Izd-vo Nauka, 1964, 66-75 TOPIC TAGS: micrometeorology, surface boundary layer, atmospheric turbulence, routation balance, topourette, vind apart velocity meteorologie observation, etmosphine convection, radiative test teenofe, etmosphine radiation, etmosphine test teenofe, etmosphine radiation, etmosphine test teenofes, etmosphine radiation, etmosphine termosphine test teenofes, etmosphine radiation, etmosphine etmosphin ABSTRACT: The results of an analysis of meteorological observations rade to investigate convective heat exchange in the surface boundary layer of the atmosphere are presented. The observations were conducted in the summer of 1960 in a level field covered with uniform vegetation in the Kuban' Steppe area. Temperatures and wind speeds were measured at three levels in the bottom six-meter layer of the atmosphere, as were the soil temperatures at several depths and the characteristics of radiation heat exchange. The information obtained was used to calculate the magnitude of the heat flux in the soil (by the Main Geophysical Observatory method) and the vertical turbulent heat flux in the atmosphere (by the Kazanskiy and Manin method). A series of graphs was constructed which illustrate the presence of correlative relationships Card 1/2 in Line between individual characteristics of meteorological conditions in boundary layer of the atmosphere. Such quantities as wind speed, wind-speed gradient lapse rate, radiation balance, heat flux in the soil, turbulent heat flux, the Richardson number, etc., are compared. The conclusions are of a descriptive nature. [EQ] / SUBM DATE: 24Jun64/ ORIG REF: 004. APPROVED FOR RELEASE: 09/18/2001 SUB CODE:

ACC NR AP5027302 SOURCE CODE: UR/0241/65/010/010/0022/0029

AUTHOR: Klimova, Ye. M.

ORG: none

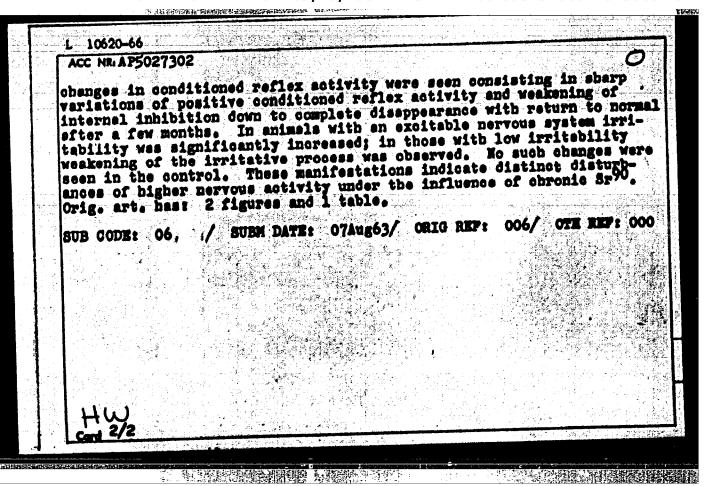
| TITLE: Disturbance of conditioned reflex activity under the chronic influence of strontium 90

SOURCE: Meditainskeys radiologiys, v. 10, no. 10, 1965, 22-29

TOPIC TAGS: radio strontium, radiation injury, experiment snimal, nervous system, conditioned reflex, reflex activity, Action Lagy for daily 0.02 % /kg dose by mouth for hyears, corresponding to a list radiose in the skeleton. The animals' conditioned reflexes were tested 2-3 times per week in respect to food with occasional electric reinforcement, and a sterectype was established for each dog. Blood, cardiovascular and immunologic tests were done every 3 months. The animals' health condition was normal throughout the test period apart from periodic transient gastrointestinal disturbances and changes in weight, with one exception in a dog which showed changes in blood chemistry after 2 years. However, shortly after the tests started wave-like

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UDC: 612.625.1.01k.h62



KLIMOVA, Ye, B.; ALEKSETEVA, O.G.

Some features of the development of radiation lesions in dogs under the chronic effect of \$r^{90}\$. Med.rad. 5 no.313-7 *60.

(STRONTIUM—IBOTOFES) (RADIATION SIGNMESS)

(MIRA 13:12)

Effect of uranium tetrafluoride on the higher nervous activity of dogs. Radiobiologia 1 no.3:399-406 '61. (UHANIUM FLUORIDES) (CEREBRAL CORTEX) (HIRA 14:10)

ALEKSETEVA, O.G.; KLIMOVA, Ie.H.; KORCHEMKIH, B.I.; PETROVICH, I.K.

Initial manifestations of injuries in dogs exposed to daily administrations of Sr.O. Med.rad. 6 no.8:57-64 Ag '61.

(STRONTIUM—ISOTOPES) (RADIATION SICKNESS)

(MIRA 14:8)

FILATOV, K.Yo.; KLINOVA, Yo.P.

4 Kinsert, yeir

Miminate shortcomings in the working out and development of organisational and technological planning in bakeries. Khleb. i kond. prom. 1 no.12:26-29 D 157. (MIRA 11:1)

1. Ysesoyusnyy saochnyy institut pishchevoy promyshlennosti.
(Bakers and bakeries)

COUNTRY USEH Cultivated Plants. CATEOORY Paraia a • \$100. RZhB101., No. 23 1959. No. 104724 ABS. JOUR. : Klimovy, Ye. S. : Natural Science Institute at Perm' University **AUTHOR** INST. 1 The Influence of Spraying with Solutions of Kicroelements TITLE on the Seed Production of Alfelfe. CRIO, PUB. : Jav. Estestv.-nauchn. in-ta pri Permak. un-te, 1957. 14. No. 1. 43-48 Experiments were carried out in 1953 and 1954 at Troitakiy ABSTRACT Training and Experimental Forestry of Perm' University. During the blossoming of alfelfs, it was sprayed with solutions of microelements in the concentration of from 0.01 to 0.1%. The best results were obtained from the aprayings with solutions of Mn, Cu, Mg, B and Bkg which increased the yield of alfalfa seeds by 40-86 kilograms or by 33-82% in comparison with the control. The weight of the aggregate mass of the plents increased on an average by 197. In 1954, Card: 1/2 67

Rheologic properties of keelin and its dispersion. Bum. prom. 36 no.8:15-16 Ag '61. (HIRA 14:8) 1. Moskovskiy filial Ysesoyuznogo nauchno-issledovatel'skogo instituta bumashnoy promyshlennosti. (Kaolin) (Paper)

LIKHOMSKIY, Vladislav Tadeushevich; TERSHOV, Aleksandr Varfolomeyevich; KLIMOVA, Tu.N., red.

[Manufacture of coated paper] Proizvodatvo melovannoi bumagi. Moskva, Izd-vo "Lesnaia promyshlennost', 1964. 69 p.

(MIRA 17:5)

"APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3

DANITS, P.; KLIMOVA, Z. [translator]

Man studies insects. Nauka i shigh' 28 no.12:\$8-73 D '61.
(Entomological research)

(Entomological research)

TOTAL STEELS THE PROPERTY OF T

BELEN'KIT, S. I.; KLINOVA, Z.K.

Processing cotton stalks by means of hydrolysis, Gidrolis,i lesokhim.prom, 13 no.1:7-10 '60. (MIRA 13:5)

1. Hauchno-issledovatel'skiy institut gidrolisnoy i sul'fitnospirtovoy promyshlennosti. (Usbekistan--Cotton) (Hydrolysis)

BELEN'KIY, S.I.; KLIMOVA, Z.K.; SHPUNTOVA, M.Ye.; CHEREMUKHIN, I.K.

Rapid continuous inversion of pentose hydrolysates. Gidrolis. 1 lesokhim. prom. 14 no.7:25-27 161. (MIRA 14:11)

1. Hauchno-issledovatel'skiy institut gidrolisnoy i sul'fitno-svirtovoy promyshlennosti (for Belen'kiy, Klimova, Shpuntova). 2. Ferganskiy gidrolisnyy savod (for Cheresukhin). (Pentoses)

(Hydrolysis)

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3" 9,4100

77116 \$/165/61/000/001/005/007 A104/A127

AUTHORS:

Bogdanova, M.D., Yerofeyev, N.M., Klimova, Z.N.

TITLE:

Characteristics of the icnosphere at Ashkhabad in January 1960

FERICDICAL: Akademiya nauk Turkmenskoy SSR, Izvestiya, Seriya fiziko-tekhnicheskikh, khimicheskikh i geologicheskikh nauk, no. 1, 1961, 74 - 76

The article discusses the vertical sounding of the ionosphere coup-TEXT: led with the registration of altitudinal frequency characteristics carried cut in the automatic, panoramic ionosphere station ANC (AIS) at Ashkhabad in January 1960. [Abstracter's note: ANC (AIS) not defined.] Some results of these chservations are shown in Table 1, others were published by the IZMIR AN SSSR (Institute of Space Sound Recording of the Academy of Sciences USSR), in "Kosmicheskiye dannyy", February 1960, no. 2 (48), 23. It is interesting to compare the observed meridian values of the critical frequencies of layer P2 with forecasts and 1959 observations. The deviations of for P2 values from forecasts were chiefly decreasing, sometimes 33%; as shown in column ± 2 ° o P2 of Table 1. A comparison of observation data in January 1960 to that in January 1959 reveals lower critical frequencies of the F2 layer in 1960 (column: ± Card 1/5

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

27116 8/165/61/000/001/005/007 A104/A127

Characteristics of the icnosphere ...

The considerable decrease of solar activity was reflected also in the conduct of other ionosphers layers. Levers B and P2 showed identical daytime decrease (6 - 7%) of fo Es. The occurrence of sporadic layer E increased to 42% in January 1960 as compared to 35% in January 1959. (Column: ± A REW 1959). The ionospheric perturbance in January 1960 had increased in comparison to January 1959. The resulting number of perturbed hours \pm Δ f o P₂ \geqslant 20% in 1960 was 98, i.e. 62 negative and 36 positive; in 1959 there were only 81 perturbed hours, i.e. 46 negative and 35 positive. In January 1959 a positive perturbance with 35% maximum deviation value at a total maximum deviation of 37% was recorded. In addition to the compiling of data on monthly perturbance characteristics, efforts were made to establish the dates of calmest days, i.e. free ionospheric and/or magnetic perturbances. In Ashkhabad such days were January 30 and 31, 1960. Mn-profiles calculated according to Kel'so's method by taking into account the influence of the magnetic field are shown in Figure 1. It should be noted that this influence effects only negligible corrections in Ashkhabad latitudes. The above calculations are based on a number of assumptions: the electronic concentration of the ionosphere increases steadily with altitude; altitudes of frequencies below the lower limit of instruments within a range of 0 - 0.6 Mo had a value of 100 km per 24 hours and from 0.6 Mp to fmin. Mc were subject Card 2/5

27116 8/165/61/000/001/005/009 A104/A127

Characteristics of the ionosphere ...

to linear increase law. The obtained Nh-profile leads to the conclusion that the main energy used for the ionization of the ionosphere was concentrated at atmospheric altitudes of 200 - 300 km. Highest altitudes were observed before midnight. Daily altitude variations of the Nh-profile are inadequately expressed. There were three minimums, two of which occur at F_2 2 - 3 hours after sunrise or sunset, the third is oriented symmetrically towards either of these before sunrise. There is 1 table, 1 figure and 4 Soviet-bloc references.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN Turkmenskoy SSN (Physical Technical Institute of the Academy of Sciences Turkmenskaya SSR)

SUBMITTED: July 7, 1960

Card 3/5

S/169/61/000/012/086/089 D228/D305

AUTHORS:

Yerofeyev, N. M., Klimova, Z. N., and

Stepanova, M. B.

TITLE:

Characteristics of the ionosphere above

Ashkhabad in Pebruary 1960

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 12, 1961, 25, abstract 120200 (Izv. AN TurkmSSR. Ser. fiz.-tekhn., khim. i geol. n., 1961, no. 2,

100-103)

THE PROPERTY OF THE PERSON OF

TEXT: The results are given for the processing of the observations of the ionospheric station at Ashkhabad in Pebruary 1960 and for their comparison with the forecast and observations of February 1959. The values of f₀F2 observed in Pebruary 1960 were below the forecast values (by up to 27%), the greatest deviations being observed in the night and morning hours. In

Card 1/2

Characteristics of the...

S/169/61/000/012/086/089 D228/D305

rebruary 1960, the magnitudes of for 2 were lower than in February 1959. The percentage appearance for E fell from 44% in February 1959 to 30%. The ionospheric disturbances of February 1960 are described. The degree of disturbance in February diminished in comparison with January 1960 and February 1959. The quietest day in respect of the magneto-ionospheric activity (24/II) was distinguished, and Nh-profiles were calculated for it. Abstracter's note: Complete translation.

Card 2/2

AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.

BERKELIYEV, M.; YEROFEYEV, N.M.; KLIHOVA, Z.H.; STEPANOVA, M.B.

Characteristics of the ionosphere over Ashkhabed in March 1960.
Isv.AN Turk.SSR.Ser.fis.-tekh., khim.i geol.nauk no.3:92-95 161.
(MIRA 14:7)

1. Fisiko-tekhnicheskiy institut AN Turkmenskoy SSR. (Ionosphere)

THE STREET STREET, STREET

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KLIMOVA-CHERKASUVA, V.I. (Leningrad)

Study of some problems of the physiology of the nervous system in laboratories of the Hungarian People's Republic. Fiziol. zhur. 47 no.12:1510-1513 D '61. (HUNGARY...HEUROLOGY)

對理

KLIMOVA_CHERKASOVA, V.I.

Inhibiting and stimulating influences of the central nervous system on cardiac activity and respiration in birds. Fisiol. shur. 47 (MIRA 15:1) no.6:721-728 Je '61.

1. From the Department of Comparative Physiology and Pathology
Institute of Experimental Medicine.
(CHLORPROMAZINE) (NERVOUS SYSTEM, AUTONOMIC)
(HEART) (RESPIRATION)

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723130002-3"

一些一种,但是一种,他们也是一种,他们也是一种的一种。

BIRYUKOV, D.A.; ANTROPOV, G.A.; KLIMOVA-CHERKASOVA, V.I.; KORNEVA, Ye.A.; SHLYAFER, T.P.; YAKOVLEVA, M.I.

Comparative and physiological features of the effect of aminazine on the regulation of cardiovascular activity. Fizio. zhur. 48 no.81953-959 Ag*62. (MIRA 16:6)

1. From the Laboratory for Comparative Physiology and Pathology, Institute of Experimental Medicine, Leningrad. (CARDIOVASCULAR SYSTEM) (CHLORPROMAZINE)

KLIMOVA-CHERKAGOVA, V.I.

Machanisms of the central effects of the vegetative nervous system on cardiac activity. Trudy Inst. klin. 1 eksper. kard. AN Gruz. SSR 81525-527 163 (MIPA 17-7)

. Institut eksperimental now meditsiny AMN SSSR, Leningrad.

ANTROPOV, G.A.; KLIMOVA-CHERKASOVA, V.I.; KORNEVA, Ye.A.; SHLYAFER, T.P.; YAKOVLEVA, M.I.

Comparative physiological characteristics of the effect of aminazine on the regulation of cardiovascular activity.

Trudy Inst. klin. i eksper. kard. AN Gruz. SSR 8:533-535
163. (MIRA 17:7)

1. Laboratoriya sravnital'noy fiziologii.

VASILETCKIY, M.N., KLIMOVA CHERNASOVA, V.I., VARTANYAR, G.A.

Structural and functional correlations between excitation and the thition in the central nervous system. Fixiol.zhur. 51 (MIRA 18:6) no.4122/-420 hp 165.

1. Institut eksperimental noy meditainy AMM SSSR, Leningrad.

L 1685-66

ACCESSION NR: AP5017393

UR/0239/65/051/007/0784/0792 612.178+612.826.4

AUTHOR: Klimova-Cherkagova, V. I.

203

TITLE: Significance of the diencephalon and mesencephalon in

central inhibitory mechanisms of heart activity

THE STREET THE DESCRIPTION OF THE PROPERTY OF

SOURCE: Piziologicheskiy shurnal SSSR, v. 51, no. 7, 1965, 784-792

TOPIC TAGS: experiment animal, brain, reflex activity, electrophysiology, cardiovascular system, blood pressure

ABSTRACT: In experiments on cats the effects of the diencemalon and the mesencephalon on parasympathetic inhibition of heart activity were determined by vagus nerve excitability before and after electric stimulation (10-15 sec) of various nuclei of these brain areas. Three groups of cats in a narcotic state (urethane 1 g/kg) were investigated under the following conditions: control, chronic (partial injury of the brain areas), and acute (serious bilateral injury of the brain areas). In the control and chronic experiments, animals received electric stimuli through implanted bipolar electrodes, and in the acute experiment monopolar electrodes were used to

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ACCESSION NR: AP5017393

stimulate the vagus nerve. A square pulse generator produced the electric stimuli of 1 msec duration with varying amplitudes and frequencies. The excitability of the bulbar centers of the vagus nerve and cardiovascular system were determined by the depressor effect and pulse rate. Blood pressure measured by a mercury manometer, respiratory movements, and in some cases EEG data were recorded on moving picture film. Findings show that different parts of the diencephalon and mesencephalon participate in regulating the functional state of parasympathetic innervation of the heart. Under acute experimental conditions, the effects of the diencephalon and mesencephalon on reflex excitability of the vagus nerve were largely determined by the parameters of electric stimuli. The optimal parameters of these stimuli for the thalamus and hypothalamus are not the same. The central inhibitory effects of the vagus nerve on the heart and blood pressure are not confined to the central bulbar links but extend to the peripheral cholinergic fibers as well. Orig. art.

ASSOCIATION: Otdel gravnitelinov fisiologii i patologii, Institut eksperimentalinov meditsiny ANN SSR, Leningrad (Branch of Comparative

Card 2/3

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	relaj vajakojako krajukoja izranima remineka	<u> </u>
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Physiology s SSSR, Lening	and Pathology, Institute of Experimental Medicine, AMS grad)	
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MR REP SOVI	O15 OTHER: O12	
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problem of the 'central tonus' according to materials as symposium in Berlin. Pisiel. shur. 51 no.8:1021-1024 Ag '65. (MIRA 18:7) 1. From the Institute of Experimental Medicine, Leningrad.	symposium in Berlin. Fisiel. shur. 31 no.8:1021-1024 Ag '07. (MIRA 18:7)	 OVA-CHERKASOVA, V.I. Problem of the 'central tonus' according to materials of the international	44 Å
1. From the Institute of Experimental Medicine, Leningred.	1. Prom the Institute of Experimental Medicine, Leningrad.	symposium in Berlin. Fisiel. shur. 51 no.811021-1022 Ag (MIRA 18:7)	
		1. From the Institute of Experimental Medicine, Leningrad.	
	다는 사용이 가장 하는 것을 보고 있다고 있다고 있습니다. 		

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KLIMOVA-CHERKASOVA, V.I.

Central mechanisms of tonic activity of the vagus nerve according to electrophysiological data. Fisiol. shur. 50 no.8:1008-1016 Ag '64. (MIRA 18:12)

1. Laboratoriya sravnitel'noy fisiologii i patologii Instituta eksperimental'noy meditsiny AMM SSSR, Leningrad.

29367-66 ACC NR AP6019797 SOURCE CODE: UR/0239/65/051/004/0424/0430 AUTHOR: Vasilevskiy, N. N.; Klimova-Cherkasova, V. I.; Vartanyan, G. ORG: Institute of Experimental Medicine, AMN SSSR, Leningrad (Institut eksperimental'noy meditainy AHN SSSR) TITIE: Structural and functional interrelationships between excitation and inhibition in the contral norvous system SOURCE: Fiziologicheskiy shurnal SSSR, v. 51, no. 4, 1965, 424-430 TOPIC TAGS: central nervous system, cat, neuron, neurophysiology ABSTRACT: In experiments with cats, individual motor neurons of the spinal cord were stimulated electrically by applying the microelectrode technique. At current frequencies ≥ 300 cycles excitation postsynaptic potentials were suppressed entirely and only inhibition postsynaptic potentials were observed. In another series of experiments, also conducted on cats, the response of a thin bundle of n. vagi fibers upon bipolar stimulation of medial divisions of the brain stem (medial nuclei of the thalamus, central grey matter around the aqueduct of sylvius) was studied. It was established that within the motor nucleus of the vagus nerve motor neurons differed in regard to their functional characteristics as for as stimulation and inhibition of discharges synchronous with inhalation (inspiration) and exhalation **Card** 1/2 612.822.3

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